BRUHAT BENGALURU MAHANAGARA PALIKE

Name of Work:- Improvements to Roads in Ward No.13 Shettyhalli Sub Division

Job Code:- 013-20-000016 | Est .Cost Rs. | 25.00 | Lakhs

Sl No	Description of Items	Unit	No	L (M)	B (M)	D (M)	Qty	Rate	Amount
1	KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. MORTH Specification No. 202 **(Page No. 140/ Item No.18.47/ PWD SR 2018-19)**								
	CC Road								
	Near Ashwath Katte 2nd Right Cross Road		1	34.00	4.50	0.15	22.95		
	11th A Perpendicular 1st Cross		1	24.00	4.10	0.15	14.76		
		Cum					**37.71**	**952.94**	**35935.37**
	Basic Rate	899.00							
	Area Weightage @ 6%	53.94							
	Grand Total	**952.94**							
2	KSRRB 300-3. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil invoiving , excavated surface leveled & sides neatly dressed , the disposed earth to be levelled neatly after breaking of clods complete as per specification MORTH/ Chapter 3. **(Page No. 142/ Item No. 19.1/ PWD SR 2018-19)**								
	CC Road								
	Near Ashwath Katte 2nd Right Cross Road		1	34.00	4.50	0.20	30.60		
	11th A Perpendicular 1st Cross		1	24.00	4.10	0.20	19.68		
	CC Patches		11	0.90	1.10	0.20	2.18		
			9	0.80	0.75	0.20	1.08		
			7	0.60	1.20	0.20	1.01		
			6	1.10	0.70	0.20	0.92		
			9	0.90	0.80	0.20	1.30		
			3	0.75	0.60	0.20	0.27		
			5	0.90	0.90	0.20	0.81		
	Road Cutting Portions		8	40.00	0.75	0.20	48.00		
			3	15.00	0.80	0.20	7.20		
			3	25.00	0.90	0.20	13.50		
			5	13.00	0.70	0.20	9.10		
			8	30.00	0.60	0.20	28.80		
			8	5.00	0.60	0.20	4.80		
			5	6.50	0.75	0.20	4.88		
			3	7.00	0.60	0.20	2.52		
	For RCC Drain		1	55.00	1.10	1.00	60.50		
	6th B Cross Ravindranagara								
	For RCC Culverts		3	7.50	1.80	1.00	40.50		
		Cum					**277.64**	**137.80**	**38258.93**
	Basic Rate	130.00							
	Area Weightage @ 6%	7.80							
	Grand Total	**137.80**							

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Sl No	Description of Items	Unit	No	L (M)	B (M)	D (M)	Est .Cost Rs. Qty	25.00 Rate	Lakhs Amount
3	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. **(P.No-222,I No-27.18 PWD SR 2018-19)**								
	CC Road								
	Near Ashwath Katte 2nd Right Cross Road		1	34.00	4.50	0.15	22.95		
	11th A Perpendicular 1st Cross		1	24.00	4.10	0.15	14.76		
	CC Patches		11	0.90	1.10	0.15	1.63		
			9	0.80	0.75	0.15	0.81		
			7	0.60	1.20	0.15	0.76		
			6	1.10	0.70	0.15	0.69		
			9	0.90	0.80	0.15	0.97		
			3	0.75	0.60	0.15	0.20		
			5	0.90	0.90	0.15	0.61		
	Road Cutting Portions		8	40.00	0.75	0.15	36.00		
			3	15.00	0.80	0.15	5.40		
			3	25.00	0.90	0.15	10.13		
			5	13.00	0.70	0.15	6.83		
			8	30.00	0.60	0.15	21.60		
			8	5.00	0.60	0.15	3.60		
			5	6.50	0.75	0.15	3.66		
			3	7.00	0.60	0.15	1.89		
	For RCC Drain								
	6th B Cross Ravindranagara		1	55.00	1.10	0.15	9.08		
	For RCC Culverts		3	7.50	1.80	0.15	6.08		
		Cum					**147.63**	**5,509.33**	**813346.03**
	Basic Rate	5,115.00							
	Deduct Cement cost as per SR - 18-19 Page No.V Sl.No.123	-1079.39	Note:- - (220*490.63/100)= - 1079.39						
	Add Cement cost as per Issue rate	1161.86	Note:- + (220*264.06/50)= + 1161.86						
	Sub Total	5,197.48							
	Area Weightage 6%	311.85							
	Grand Total	**5,509.33**							
4	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specificationsdo- Wall & bottom thickness 15cm **(I No-37.59.2,P No-271 PWD SR 2018-19)**								
	For RCC Drain								
	Bed Concrete		1	55.00	0.90	0.15	7.43		
	Side Walls		2	55.00	0.15	0.75	12.38		

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Sl	Description of Items	Unit	No	L (M)	B (M)	D (M)	Qty	Est .Cost Rs. 25.00 Rate	Lakhs Amount
	For RCC Culverts								
	Bed Concrete		3	7.50	1.50	0.20	6.75		
	Side Walls		6	7.50	0.20	0.60	5.40		
		Cum					**31.95**	**7,189.42**	**229701.91**
	Basic Rate	6,670.00							
	Deduct Cement cost as per SR - 18-19 Page No.V Sl.No.123	-1471.89	Note:- - (300*490.63/100)= - 1471.89						
	Add Cement cost as per Issue rate	1584.36	Note:- + (300*264.06/50)= + 1584.36						
	Sub Total	6,782.47							
	Area Weightage 6%	406.95							
	Grand Total	**7,189.42**							

5 KSRRB M2200-6. Providing T.M.T. steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per disign (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification. MORTH Specification No.1600 & 2200 **(I No-28.8.2, P No-229 PWD SR 2018-19)**

Consider 65kg/Cum for Drain		1	19.80	65.00		1287.00		
Consider 90kg/Cum for Culvert		1	12.15	90.00		1093.50		
Current Rate W.e.f 01.07.2020	**Tonne**					**2.38**	**65,046.90**	**154844.15**
Issued Rate	61365.00							
Area Weightage @ 6%	3681.90							
Grand Total	**65,046.90**							

Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift, transportation etc ,copmplete.**(Data Rate)**

For RCC Drain								
6th B Cross Ravindranagara		1	55.00	0.90		49.50		
Missing Slabs		1	5.00	0.90		4.50		
	Sqm					**54.00**	**1,615.00**	**87210.00**
Issued Rate	**1615.00**							

Providing and fixing Precast RCC slab of 250mm thick for Culverts made of Plain/Reinforced Cement Concrete design mix M25 with OPC@340kgs,with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregates@0.47cum,with superplasticizer@3lts confirming to IS9103-1999 Reaffirmed-2008,Open Foundation complete as per Drawing and Technical Specification including cost of all materials, labour,HOM curing,form works,scaffolding and centering complete as per specifications and pointing for ljoints 1:3 cement mortar including form work,lift charges,curing and concrete finished surfaces on both sides etc,complete and as per the directions of Engineer in-Charge. (Data Rate)

For RCC Culverts		3	7.50	1.50		33.75		
	Sqm					**33.75**	**3,874.00**	**130747.50**
Issued Rate	**3874.00**							

KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications.**(P.No. 147, I.No. 19.64 PWD SR 2018-19)**

For CC Road	Sqm							
CC Road								
Near Ashwath Katte 2nd Right Cross Road		1	34.00	4.50		153.00		
11th A Perpendicular 1st Cross		1	24.00	4.10		98.40		

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Sl	Description of Items	Unit	No	L (M)	B (M)	D (M)	Est .Cost Rs. Qty	25.00 Rate	Lakhs Amount
	CC Patches		11	0.90	1.10		10.89		
			9	0.80	0.75		5.40		
			7	0.60	1.20		5.04		
			6	1.10	0.70		4.62		
			9	0.90	0.80		6.48		
			3	0.75	0.60		1.35		
			5	0.90	0.90		4.05		
	Road Cutting Portions		8	40.00	0.75		240.00		
			3	15.00	0.80		36.00		
			3	25.00	0.90		67.50		
			5	13.00	0.70		45.50		
			8	30.00	0.60		144.00		
			8	5.00	0.60		24.00		
			5	6.50	0.75		24.38		
			3	7.00	0.60		12.60		
		Sqm					**883.21**	**6.36**	**5617.18**
	Basic Rate	6.00							
	Area Weightage @ 6%	0.36							
	Total	**6.36**							

9 Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. - M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum) **(Page No. 175.tem No.22.6.1,PW,P & IWTD SR 2018-19)**

Near Ashwath Katte 2nd Right Cross Road		1	34.00	4.50	0.15	22.95		
11th A Perpendicular 1st Cross		1	24.00	4.10	0.15	14.76		
CC Patches		11	0.90	1.10	0.15	1.63		
		9	0.80	0.75	0.15	0.81		
		7	0.60	1.20	0.15	0.76		
		6	1.10	0.70	0.15	0.69		
		9	0.90	0.80	0.15	0.97		
		3	0.75	0.60	0.15	0.20		
		5	0.90	0.90	0.15	0.61		
Road Cutting Portions		8	40.00	0.75	0.15	36.00		
		3	15.00	0.80	0.15	5.40		
		3	25.00	0.90	0.15	10.13		
		5	13.00	0.70	0.15	6.83		
		8	30.00	0.60	0.15	21.60		

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Sl No	Description of Items	Unit	No	L (M)	B (M)	D (M)	Est .Cost Rs. Qty	25.00 Rate	Lakhs Amount
			8	5.00	0.60	0.15	3.60		
			5	6.50	0.75	0.15	3.66		
			3	7.00	0.60	0.15	1.89		
		Cum					**132.48**	**5354.02**	**709304.83**
	Basic Rate	4,916.00							
	Deduct Cement cost as per SR - 18-19 Page No.V Sl.No.123	-1766.27	Note:- - (360*490.63/100)= - 1766.27						
	Add Cement cost as per Issue rate	1901.23	Note:- + (360*264.06/50)= + 1901.23						
	Sub Total	5,050.96							
	Area Weightage 6%	303.06							
	Grand Total	**5,354.02**							
10	KSRRB M100-1 Loading and Unloading of Stone Boulder / Stone aggregates /Sand/ Kanker / Moorum. KSRRB M100-1 : Placing tipper at loading point, loading with front end loader,dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications. MORTH -100/ Chapter 1 **(P.No.136 & I.No.17.1 PWD 18-19)**								
		Cum							
			Vide Item No.1 & 2				315.35		
							315.35	**57.00**	**17975.01**
	Basic Rate	**57.00**							
11	KSRRB M100-4.1. Cost of Haulage Excluding Loading and Unloading MORTH -100/ Chapter 1 Case-I : Surface Road **(P.No.136 & I.No.17.4 PWD 18-19)**								
		t.km							
			Vide Item No.6				315.35		
	lead for earth 10 km(2*1.28*10=25.60)						**315.35**	**25.60**	**8072.99**
	Basic Rate	**25.60**							
	Construction Cost								**2231013.89**
	GST 12%								**267721.67**
	Sub Total								**2498735.56**
	Miscellaneous								**1264.44**
	Total								**2500000.00**

Rupees Twenty Five Lakh(s) Only

CERTIFICATE

1 The Work spot has been inspected and the work found to be necessary
2 The Estimate is prepared as per the PWD SR 2018-19
3 The Provision made in estimate are adequate and essential
4 This area comes under BBMP limits.

Asst Engineer
Ward No- 13
BBMP

Asst Executive Engineer
Shettyhalli Sub Division
BBMP

Executive Engineer
Dasarahalli Division
BBMP

ADMINISTRATIVELY SANCTIONED FOR
(Rupees Twenty Five only
Under the Head of Account P.O.W.-1771
P.O.W- Works
Registered as no EE(D.D.)/AS 128 Subject to conditions contained in Enclosed Memo
No. EE/DD/AS/128/2020-21 Dt: 28/09/2020
Exe. Eng
(DASARAHALLI BBMP)

Technically Sanctioned For Rs. 25.00 Lakh
Rs. In Words Twenty Five Lakhs only
Under P.O.W-1771
Job Code No. 013-20-000016
Registered as SE No. 98/2020-21
to conditions contained in Enclosed Memo
No. SE/DD/TS/98/2020-21 Dt.
ACTG SE

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